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AMENDMENTS TO THE ABSTRACT:

A method for manufacturing a GaN-based light-emitting diode (LED) is provided

provides with the following steps of: providing a substrate; forming a GaN semiconductor

epitaxy layer on the substrate, the GaN semiconductor epitaxy layer further including an

n-type GaN contact layer, a light-emitting layer and a p-type GaN contact layer; forming a

digital penetration layer on the p-type GaN contact layer; using a multi-step mutli-step

dry etching method to etch the digital penetration layer, the p-type GaN contact layer, the

light-emitting layer to form an n-metal forming area, etching terminating at the light-

emitting layer; forming a first ohmic contact electrode on the digital penetration layer for

[[said]] a p-type ohmic contact layer and a second ohmic contact electrode on the n-metal

forming area for [[said]] an n-type ohmic contact layer; and finally, forming pads on both

[[said]] first ohmic contact electrode and [[said]] second ohmic contact electrode

electrodes.